

## Claims

1. Method for transmitting data in a switchable data network,  
wherein data telegrams (70 - 77) are assigned priorities, with  
5 said telegrams (70 - 77) in each case having a beginning and an  
end, with data telegrams (75 - 77) that were assigned a first  
priority being sent during a first phase from first users (1 - 3)  
to second users (2 - 4), with the first phase being characterized  
by means of a defined receive time of the end of the respective  
10 data telegram (75 - 77) at the second user (2 - 4).
2. Method according to Claim 1,  
w h e r e i n  
only data telegrams (70 - 72) assigned a second priority are sent  
15 in a second phase after the end of the first phase.
3. Method according to Claim 1 or 2,  
w h e r e i n  
data telegrams (73, 74) assigned any priority are sent in a third  
20 phase after the end of the second phase.
4. Method according to one of the preceding Claims,  
w h e r e i n  
the first phase is cyclically repeated.  
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5. Method according to one of the preceding Claims,  
w h e r e i n  
data telegrams with realtime data are assigned the first priority.
- 30 6. System for transmitting data in a switchable data network, with  
users (1 - 4) which have means for sending, receiving, and/or  
forwarding data telegrams (70 - 77), with said telegrams (70 - 77)  
in each case having a beginning and an end and with said telegrams  
(70 - 77) being assigned priorities, with first users (1 - 3)  
35 being provided during a first phase for sending data telegrams (75  
- 77) assigned a first priority to second users (2 - 4), with the  
first phase being characterized by a defined receive time of the

end of the respective data telegram (75 - 77) at the second user (2 - 4).

7. System according to Claim 6,

5   w h e r e i n

the first users (1 - 3) are provided during a second phase after the end of the first phase for exclusively sending data telegrams (70 - 72) assigned a second priority to the second users (2 - 4).

10   8. System according to Claim 6 or 7,

w h e r e i n

the first users (1 - 3) are provided during a third phase after the end of the second phase for sending data telegrams (73, 74) assigned any priority to the second users (2 - 4).

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9. System according to one of the Claims 6 to 8,

w h e r e i n

the system for transmitting realtime data is provided in the switchable data network, with the realtime data being assigned the first priority.

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10. Users (1 - 4) in a switchable data network which have means for sending, receiving, and/or forwarding data telegrams (70 - 77), with said telegrams (70 - 77) in each case having a beginning and an end and with said telegrams (70 - 77) being assigned priorities, with the user (1 - 4) being embodied as a first user (1 - 3) and/or second user (2 - 4), with the first user (1 - 3) being provided during a first phase for sending data telegrams (75 - 77) assigned a first priority to the second users (2 - 4), with the first phase being characterized by a defined receive time of the end of the respective data telegram (75 - 77) at the second user (2 - 4).

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